

Recombinant Human PTPN21 Protein, MYC/DDK-tagged

Cat. No. PTPN21-3130H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN21 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an N-terminal domain, similar to cytoskeletal-associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	PTPN21 protein tyrosine phosphatase, non-receptor type 21 [Homo sapiens]
Official Symbol	PTPN21
Synonyms	PTPD1; PTPRL10
Gene ID	11099
mRNA Refseq	NM_007039
Protein Refseq	NP_008970
MIM	603271
UniProt ID	Q16825

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